IEEE P802.15
Wireless Specialty Networks

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| IEEE 802.15.13 2022 January Interim Meeting Minutes |
| Date: 2022-02-01 |
| Author: |
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Abstract

# This document contains the TG13 Multi-Gigabit/s Optical Wireless Communications Meeting minutes during January interim.

**Wednesday, 19th January, 2022, 07:15AM (ET) Session #1**

1. The IEEE 802.15.13 meeting was called to order at by the Chair, Volker Jungnickel (Fraunhofer HHI). Tuncer Baykas (Kadir Has Uni) recorded the minutes.

1. The Chair reviewed the IEEE-SA patent policy, logistics, and reminders, including meeting guidelines and attendance recording procedures.
	* No essential patents are claimed.
	* It is reminded all to record their attendance through the IMAT system.
	* Registration fee should be paid.
2. The Chair introduced the overall agenda in doc. 15-22/11r1 for the meeting.
	* Group will resolve comments on recirculation.
	* Reconfirm CRG
	* Make motion on minutes
	* Group discussed overall agenda. New 15-22/0011r1 is uploaded.
3. Motion to approve the agenda for January TG13 virtual meeting in doc. 15-22/0011r2.
	* Moved by: Tuncer Baykas
	* Seconded by: Sang-Kyu Lim
	* Approved unanimously
4. TG Motion to reconfirm CRG

*Move to request that 802.15 WG approves the formation of a Comment Resolution Group (CRG) for the Standards Association balloting of the P802.15.13\_D5 with the following membership: Volker Jungnickel as Chair, Tuncer Baykas, Sang-Kyu Lim, Tero Kivinen. The 802.15.13 CRG is authorized to approve comment resolutions, edit the draft according to the comment resolutions, and to approve the start of recirculation ballots of the revised draft on behalf of the 802.15 WG. Comment resolution on recirculation ballots between sessions will be conducted via reflector email and via teleconferences announced to the reflector as per the LMSC 802 WG P&P.*

* + Moved by: Sang-Kyu Lim
	+ Seconded by: Tuncer Baykas
	+ Approved unanimously
1. CRG telecom dates are discussed.
	* Agreed dates are provided in 15-22/0011r3.
2. Group discussed possible comments.
3. Group recessed

**Thursday, January 20th, 2022, 07:10AM (ET) Session #2**

Attendance:

* Volker Jungnickel (Fraunhofer HHI)
* Sang-Kyu Lim (ETRI)
* Kai Lennert Bober (Fraunhofer HHI)
* Tuncer Baykas (Kadir Has University)
* Chong Han (pureLiFi)
* Tero Kivinen (Self)
* Around 25 to 31 people
1. The IEEE 802.15.13 meeting was called to order by the Chair, Volker Jungnickel (Fraunhofer HHI). Sang-Kyu Lim (ETRI) recorded the minutes.

1. The Chair reviewed the IEEE-SA patent policy, logistics, and reminders, including meeting guidelines and attendance recording procedures.
	* No essential patents are claimed.
	* It is reminded all to record their attendance through the IMAT system.
	* Registration fee should be paid.
	* Deadbeat consequences in default of paying registration fee for a prior meeting
	* TG13 officers and operating rules
2. The Chair uploaded the updated agenda document (15-22/11r3) to the mentor at Tuncer’s request, and he introduced the overall agenda in doc. 15-22/11r3 for the meeting.
3. The Chair (Fraunhofer HHI) reported briefly the current status of TG13 for the attendees who have not participated in TG13 before.
* TG13 draft is in SA ballot
	+ after 1st recirc, 98% approval rate, 85% return rate, 1x NO with MBS
	+ CRG resolved 158 comments D5.0 (1 general, 96 technical, 61 editorial)
	+ New draft has got a more consistent quality
	+ Technical Editor created D6.0 and started recirculation: runs until Jan., 22
	+ No more technical change expected, merely editorial comments expected
* Agenda in doc. 15-22/0011r3
	+ Wait for first recirc comments coming in, start to assign and resolve them
	+ Review status after recirculation and plan the final steps towards publication
1. Kai Lennert Bober (Fraunhofer HHI), TG13 Technical Editor, took over the host position for the discussion on SA ballot 2nd recirculation comment resolution from the Chair.
2. Kai Lennert Bober (Fraunhofer HHI) opened the document 15-22-0045/r0 and shared his screen. The group started to resolve the comments.
* R2-8 : The comment resolution was not completed because further discussion is needed.
* R2-9 : Accepted
* R2-5 : Accepted
* R2-6 : Accepted
* R2-10 : Accepted
* R2-11 : Accepted
* R2-12 : Revised and please see the doc.15-22-0045-01-0013 for details.
* R2-13 : Revised and please see the doc.15-22-0045-01-0013 for details.
* An additional comment indicating “Specify for each element in which frame type it is transmitted” was added to Additional Comments sheet.
* R2-14 : Revised and please see the doc.15-22-0045-01-0013 for details.
* R2-15 : Revised and please see the doc.15-22-0045-01-0013 for details.
* R2-16 : The Technical Editor made a draft resolution on this comment through discussion with Tero, and please see the doc.15-22-0045-01-0013 for details.
* R2-17 : Revised and please see the doc.15-22-0045-01-0013 for details.
1. The Group recessed.

**Monday, January 24th, 2022, 07:10AM (ET) Session #3**

Attendance:

* Volker Jungnickel (Fraunhofer HHI)
* Sang-Kyu Lim (ETRI)
* Kai Lennert Bober (Fraunhofer HHI)
* Tuncer Baykas (Kadir Has University)
* Chong Han (pureLiFi)
* Tero Kivinen (Self)
* Around 10 to 13 people
1. The meeting started about 10 minutes late while the Chair, Volker Jungnickel (Fraunhofer HHI), changed the teleconference room.
2. The IEEE 802.15.13 meeting for 3rd session was called to order by the Chair, Volker Jungnickel (Fraunhofer HHI). Sang-Kyu Lim (ETRI) recorded the minutes. Then, it’s been decided that Tuncer Baykas (Kadir Has University) will record the minutes for 4th session because Sang-Kyu Lim (ETRI) will join the meeting a little bit late on Tuesday.

1. The Chair reviewed the IEEE-SA patent policy, logistics, and reminders, including meeting guidelines and attendance recording procedures.
	* No essential patents are claimed.
	* It is reminded all to record their attendance through the IMAT system.
	* Registration fee should be paid.
	* Deadbeat consequences in default of paying registration fee for a prior meeting
	* TG13 officers and operating rules
2. The Chair introduced the overall agenda in doc. 15-22/11r4 for the meeting.
3. The Chair (Fraunhofer HHI) reported briefly the current status of TG13 for the attendees who have not participated in TG13 before.
* TG13 draft is in SA ballot
	+ after 1st recirc, 98% approval rate, 85% return rate, 1x NO with MBS
	+ CRG resolved 158 comments D5.0 (1 general, 96 technical, 61 editorial)
	+ New draft has got a more consistent quality
	+ Technical Editor created D6.0 and started recirculation: runs until Jan., 22
	+ No more technical change expected, merely editorial comments expected
	+ SA ballot 2nd recirculation for D6.0 was closed on Jan. 22th
* Agenda in doc. 15-22/0011r4
	+ Wait for first recirc comments coming in, start to assign and resolve them
	+ Review status after recirculation and plan the final steps towards publication
1. TG13 reviewed the meeting minutes (15-21-0581/r2) for November Plenary 2021 meeting and the teleconference minutes (15-21-0634/r1) for telcos between November 2021 and January 2022. However, the teleconference minutes (15-21-0634/r1) was needed to be updated because the telco on Dec.7th in the minutes, 15-21-0634/r1 was not cancelled. So, it was updated to 15-21-0634/r2 document.
2. Motion to approve the meeting minutes for November Plenary 2021 TG13 virtual meeting in doc. 15-21/0581r2 and CRG teleconference minutes for telcos between November 2021 and January 2022 in doc. 15-21-0634/r2.
	* Moved by: Tuncer Baykas
	* Seconded by: Sang-Kyu Lim
	* Approved unanimously
3. The Chair said that there was one thing to discuss before TG13 continued to resolve the comments.
4. The Chair briefly introduced the background on the reason why two clauses for non-beacon enabled MAC and LB-PHY were deleted in D6.0 draft, which was related to 40 comments in the SA ballot 1st recirculation. The Chair said that Chong Han (pureLiFi) uploaded her contribution (15-22-0069/r0) as a response on this issue, so Chong Han (pureLiFi) will present her contribution and TG13 will have some discussion on this issue.
5. Chong Han (pureLiFi) addressed the background and history that non-beacon enabled MAC and LB-PHY offering the centralized services by polling mechanism were specified in the draft on January 2018, and its main characteristics in her contribution document.
6. The Chair, as only his personal opinion, said that the document is still not sufficient quality to resolve 40 comments, and he addressed TG13 has done a lot of work to complete successful MIMO and relaying functionality. In addition, he also addressed TG13 cannot have much time to resolve the comments for keeping up with the schedule as soon as possible.
7. Tero said that the non-beacon enabled MAC does not show 802.15 common MAC structure, and he said to Chong Han that you can use the Amendment process if you want to add them.
8. Kai Lennert Bober (Fraunhofer HHI) said that he had a similar opinion with Tero on this issue. He said there was still something to be cleared up in doc. 15-22-0069/r0 and something that he still cannot understand.
9. The discussion on this issue was stopped to resolve the comments on SA ballot 2nd recirculation
10. The Chair asked Kai Lennert Bober (Fraunhofer HHI), TG13 Technical Editor, about the results of SA ballot 2nd recirculation comments because the ballot had been closed on January 22th. The Technical Editor answered that the total comments were 94, the editorial comments and the technical comments were 49 and 45, respectively.
11. The group decided to continue the comment resolution for SA ballot 2nd recirculation.
12. So, Kai Lennert Bober (Fraunhofer HHI), TG13 Technical Editor, took over the host position for the discussion on SA ballot 2nd recirculation comment resolution from the Chair.
13. Kai Lennert Bober (Fraunhofer HHI) opened the document 15-22-0045/r2 and shared his screen. The group started to resolve the comments.
* R2-85 and R2-86 : Two editorial comments were resolved as “accepted”.
* R2-107 : Revised and please see the doc.15-22-0045-03-0013 for details.
* R2-104 : At first the comment was resolved as “Accepted”, but it was changed to “Revised” according to Tero’s suggestion. Please see the doc.15-22-0045-03-0013 for details.
* R2-105 : Revised and please see the doc.15-22-0045-03-0013 for details.
* R2-106 : Accepted
* R2-103 : Revised and please see the doc.15-22-0045-03-0013 for details.
* R2-18 : The resolution was not completed, and the CRG made a draft resolution because it is needed to create the contribution with updated text.
* R2-19 : The comment is similar to R2-18. So, the comment will be resolved with R2-18.
* R2-20 : The comment is related to R2-18. So, the comment will be resolved with R2-18.
* R2-21 : Revised and please see the doc.15-22-0045-03-0013 for details.
* R2-22 : Accepted
* Since then, the CRG reviewed easy issues to resolve such as editorial comments because the closing time was coming.
* R2-23 : Accepted.
* R2-26 : Accepted.
* R2-27 : Accepted.
* R2-28 : Accepted.
* R2-101 : Accepted.
1. The Group recessed.

**Tuesday, January 25th, 2022, 07:10AM (ET) Session #4**

Attendance:

* Volker Jungnickel (Fraunhofer HHI)
* Sang-Kyu Lim (ETRI)
* Kai Lennert Bober (Fraunhofer HHI)
* Tuncer Baykas (Kadir Has University)
* Chong Han (pureLiFi)
* Tero Kivinen (Self)
* Around 10 to 13 people
1. The IEEE 802.15.13 meeting was called to order at by the Chair, Volker Jungnickel (Fraunhofer HHI). Tuncer Baykas (Kadir Has Uni) recorded the minutes.

1. The Chair reviewed the IEEE-SA patent policy, logistics, and reminders, including meeting guidelines and attendance recording procedures.
	* No essential patents are claimed.
	* It is reminded all to record their attendance through the IMAT system.
	* Registration fee should be paid.
2. The Chair reviewed the IEEE-SA patent policy, logistics, and reminders, including meeting guidelines and attendance recording procedures.
	* No essential patents are claimed.
	* It is reminded all to record their attendance through the IMAT system.
	* Registration fee should be paid.
3. The Chair introduced the overall agenda in doc. 15-22/11r4 for the meeting.
	* Group will resolve comments on recirculation.
	* Discuss TG13 timeline
4. Kai Lennert Bober (Fraunhofer HHI) opened the document 15-22-0045/r3 and shared his screen. The group started to resolve the comments.
* R2-29 : Revised and please see the doc.15-22-0045-03-0013 for details.
* Additional comments 4: please see the doc.15-22-0045-03-0013 for details.
* R2-3 : Revised and please see the doc.15-22-0045-03-0013 for details.
* R2-4 : Revised and please see the doc.15-22-0045-03-0013 for details.
* R2-30 : Revised and please see the doc.15-22-0045-03-0013 for details.
* R2-31 : Accepted
* R2-32 : Revised and please see the doc.15-22-0045-03-0013 for details.
* R2-33-R2-35 : Accepted
* R2-36 Assigned and please see the doc.15-22-0045-03-0013 for details.
* Additional comments 5: Re please see the doc.15-22-0045-03-0013 for details.
* R2-37 Assigned and please see the doc.15-22-0045-03-0013 for details..
* R2-87 : Revised and please see the doc.15-22-0045-03-0013 for details.
* R2-38 : Revised and please see the doc.15-22-0045-03-0013 for details.
* R2-39 : Revised and please see the doc.15-22-0045-03-0013 for details.
* R2-40: Accepted
* R2-43: Accepted
1. Group discussed how to go forward.
	* Submission to Revcom is planned in May.
2. Group adjourned.